

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) Chewing gum comprising at least two different biodegradable polymers,

wherein said at least two different biodegradable polymers have a different glass transition temperature T_g,

wherein at least one of the biodegradable polymers has a glass transition of at least +1°C, and

wherein at least one of the at least two different biodegradable polymers has a glass transition temperature of less than 0 °C, and
wherein the difference in molecular weight between the at least two different biodegradable polymers is at least 1000 g/mol Mn.

2. (original) Chewing gum according to claim 1,

wherein the at least two different polymers are hydrophilic.

3. (canceled)

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4. (previously presented) Chewing gum according to claim 1,
wherein the difference in molecular weight between the at least two
different polymers is at least 50000 g/mol Mn.
5. (previously presented) Chewing gum according to claim 1,
wherein at least one of said at least two different biodegradable polymers
comprises a biodegradable elastomer and
at least one of said at least two different biodegradable polymers comprises
a biodegradable plasticizer, said biodegradable plasticizer comprising at least one
biodegradable polymer.
6. (previously presented) Chewing gum according to claim 5,
wherein the molecular weight of said biodegradable plasticizer is in the
range of 500 – 19,000 g/mol.
7. (canceled)
8. (previously presented) Chewing gum according to claim 5, wherein said at least
two different biodegradable polymers have different glass transition temperatures
Tg.

9. (canceled)

10. (previously presented) Chewing gum according to claim 1,
wherein at least one of the biodegradable polymers, has a glass transition
of at least +10°C.

11. (previously presented) Chewing gum according to claim 1,
wherein at least one of the biodegradable polymers, has a glass transition
of at least +20°C.

12. (previously presented) Chewing gum according to claim 1,
wherein at least one of the biodegradable polymers comprises a
biodegradable elastomer.

13. (previously presented) Chewing gum according to claim 12,
wherein the molecular weight of said biodegradable elastomer is in the
range of 10000 - 1000000 g/mol Mn.

14. (canceled).

15. (previously presented) Chewing gum according to claim 1,
wherein at least one of the at least two different biodegradable polymers
has a glass transition temperature of less than -30°C.
16. (previously presented) Chewing gum according to claim 1,
wherein the resulting chewing gum has at least two different glass transition
temperatures Tg.
17. (previously presented) Chewing gum according to claim 1,
wherein the chewing gum comprises at least one biodegradable elastomer
having a glass transition temperature Tg below 0°C and at least one
biodegradable plasticizer having a glass transition temperature Tg exceeding 0°C.
18. (previously presented) Chewing gum according to claim 17,
wherein the at least one plasticizer comprises a biodegradable polymer
obtained by polymerization of one or more cyclic esters.
19. (previously presented) Chewing gum according to claim 17,
wherein the at least one elastomer comprises a biodegradable polymer
obtained by polymerization of one or more cyclic esters.

20. (previously presented) Chewing gum according to claim 17,
wherein the at least one elastomer comprises edible polyesters.
21. (previously presented) Chewing gum according to claim 17,
wherein the at least one elastomer comprises edible polyesters or
polyhydroxyalkanoates.
22. (previously presented) Chewing gum according to claim 1,
wherein said chewing gum comprises at least one biodegradable elastomer
in the amount of about 0.5 to about 70% wt of the chewing gum, at least one
biodegradable plasticizer in the amount of about 0.5 to about 70% wt of the
chewing gum and at least one chewing gum ingredient chosen from the group
consisting of softeners, sweeteners, flavoring agents, active ingredients and fillers
in the amount of about 2 to about 80% wt of the chewing gum.
23. (previously presented) -Chewing gum according to claim 1,
wherein the at least one biodegradable polymer comprises at least 25% of
the chewing gum polymers.

24. (currently amended) Chewing gum according to claim 1,
wherein all the biodegradable polymers comprised in the chewing gum
comprise at least 25% of the chewing gum polymers.

25. (currently amended) Chewing gum according to claim 1,
wherein all the biodegradable polymers comprised in the chewing gum
comprise at least 80% of the chewing gum polymers.

26. (previously presented) Chewing gum according to claim 1,
wherein the chewing gum is substantially free of non-biodegradable
polymers.

27. (previously presented) Chewing gum according to claim 1,
wherein the chewing gum is free of non-biodegradable polymers.

28. (previously presented) Chewing gum according to claim 22,
wherein said chewing gum ingredients comprise flavoring agents.

29. (previously presented) Chewing gum according to claim 28,
wherein said flavoring agents comprise natural and synthetic flavorings in
the form of natural vegetable components, essential oils, essences, extracts,
powders, including acids or other substances capable of affecting the taste profile.
30. (previously presented) Chewing gum according to claim 28,
wherein said chewing gum comprises flavoring agents in the amount of
0.01 to about 30 wt %, said percentage being based on the total weight of the
chewing gum.
31. (previously presented) Chewing gum according to claim 28,
wherein said chewing gum comprises flavoring agents in the amount of 0.2
to about 4 wt %, said percentage being based on the total weight of the chewing
gum.
32. (previously presented) Chewing gum according to claim 28,
wherein said flavoring agent comprises water soluble ingredients.
33. (previously presented) Chewing gum according to claim 32,
wherein said water soluble flavoring agent comprises acids.

34. (previously presented) Chewing gum according to claim 28,
wherein said flavoring agent comprises water insoluble ingredients.
35. (previously presented) Chewing gum according to claim 22,
wherein said chewing gum ingredients comprise sweeteners.
36. (previously presented) Chewing gum according to claim 35,
wherein said sweetener comprises bulk sweeteners.
37. (previously presented) Chewing gum according to claim 36,
wherein the chewing gum comprises bulk sweeteners in the amount of
about 5 to about 95% by weight of the chewing gum.
38. (previously presented) Chewing gum according to claim 35,
wherein said sweetener comprises high intensity sweeteners.
39. (currently amended) Chewing gum according to claim 38,
wherein the high intensity sweeteners comprise sucralose, aspartame, salts
of acesulfame, alitame, saccharin and its salts, cyclamic acid and its salts,
glycyrrhizin, dihydrochalcones, thaumatin, monellin, sterioside stevioside, alone or
in combination.

40. (previously presented) Chewing gum according to claim 38,
wherein the chewing gum comprises high intensity sweeteners in the amount of about 0 to about 1% by weight of the chewing gum.
41. (previously presented) Chewing gum according to claim 1,
wherein the chewing gum comprises at least one softener.
42. (previously presented) Chewing gum according to claim 41,
wherein the at least one softener comprises tallow, hydrogenated tallow, hydrogenated and partially hydrogenated vegetable oils, cocoa butter, glycerol monostearate, glycerol triacetate, lecithin, mono-, di- and triglycerides, acetylated monoglycerides, fatty acids, stearic acid, palmitic acid, oleic acid, linoleic acid, waxes, polyglycol esters, or mixtures thereof.
43. (previously presented) Chewing gum according to claim 41,
wherein the chewing gum comprises softeners in the amount of about 0 to about 18% by weight of the chewing gum.
44. (previously presented) Chewing gum according to claim 22,
wherein said chewing gum ingredients comprise active ingredients.

45. (previously presented) Chewing gum according to claim 44, said active ingredients being selected from the group consisting of: Acetaminophen, Acetylsalicylic acid, Buprenorphine, Bromhexin, Celcoxib, Codeine, Diphenhydramin, Diclofenac, Etoricoxib, Ibuprofen, Indometacin, Ketoprofen, Lumiracoxib, Morphine, Naproxen, Oxycodon, Parecoxib, Piroxicam, Rofecoxib, Tenoxicam, Tramadol, Valdecoxib, Calciumcarbonat, Magaldrate, Disulfiram, Bupropion, Nicotine, Azithromycin, Clarithromycin, Clotrimazole, Erythromycin, Tetracycline, Granisetron, Ondansetron, Prometazin, Tropisetron, Brompheniramine, Ceterizin, Ieco-Ceterizin, Chlorcyclizine, Chlorpheniramin, Chlorpheniramin, Difenhيدрамин, Doxylamine, Fenofenadin, Guaifenesin, Loratadin, des-Loratadin, Phenyltoloxamine, Promethazin, Pyridamine, Terfenadin, Troxerutin, Methylldopa, Methylphenidate, Benzalcon. Chloride, Benzeth. Chloride, Cetylpyrid. Chloride, Chlorhexidine, Ecabet-sodium, Haloperidol, Allopurinol, Colchinine, Theophylline, Propanolol, Prednisolone, Prednisone, Fluoride, Urea, Miconazole, Actot, Glibenclamide, Glipizide, Metformin, Miglitol, Repaglinide, Rosiglitazone, Apomorfin, Cialis, Sildenafil, Vardenafil, Diphenoxylate, Simethicone, Cimetidine, Famotidine, Ranitidine, Ratinidine, cetirizin, Loratadine, Aspirin, Benzocaine, Dextrometorphan, Ephedrine, Phenylpropanolamine, Pseudoephedrine, Cisapride, Domperidone, Metoclopramide, Acyclovir, Dioctylsulfosucc., Phenolphthalein, Almotriptan, Eletriptan, Ergotamine, Migea,

Naratriptan, Rizatriptan, Sumatriptan, Zolmitriptan, Aluminium salts, Calcium salts,
Ferro salts, Silver salts, Zinc-salte, Amphotericin B, Chlorhexidine, Miconazole,
Triamcinolonacetond, Melatonin, Phenobarbitol, Caffeine, Benzodiazepiner,
Hydroxyzine, Meprobamate, Phenothiazine, Buclizine, Brometazine, Cinnarizine,
Cyclizine, Difenhydramine, Dimenhydrinate, Buflomedil, Amphetamine, Caffeine,
Ephedrine, Orlistat, Phenylephedrine, Phenylpropanolamin, Pseudoephedrine,
Sibutramin, Ketoconazole, Nitroglycerin, Nystatin, Progesterone, Testosterone,
Vitamin B12, Vitamin C, Vitamin A, Vitamin D, Vitamin E, Pilocarpin,
Aluminiumaminoacetat, Cimetidine, Esomeprazole, Famotidine, Lansoprazole,
Magnesiumoxide, Nizatide and/or Ratinidine or derivates and mixtures thereof.

46. (previously presented) Chewing gum according to claim 22,
wherein the chewing gum is substantially free of non-biodegradable
polymers.

47. (previously presented) Chewing gum according to claim 1,
wherein one of the at least two biodegradable polymers is a polymer
obtained by polymerization of one or more cyclic esters wherein the cyclic esters
are selected from the group consisting of glycolides, lactides, lactones, cyclic
carbonates and mixtures thereof.

48. (previously presented) Chewing gum according to claim 47,
wherein said lactones are chosen from the group consisting of ϵ -caprolactone, δ -valerolactone, γ -butyrolactone, β -propiolactone, and mixtures thereof; wherein the lactone is optionally substituted with one or more alkyl or aryl substituents at any non-carbonyl carbon atoms along the ring, including compounds in which two substituents are contained on the same carbon atom.

49. (previously presented) Chewing gum according to claim 47,
wherein the carbonate monomer is selected from the group consisting of trimethylene carbonate, 5-alkyl-1,3-dioxan-2-one, 5,5-dialkyl-1,3-dioxan-2-one, or 5-alkyl-5-alkyloxycarbonyl-1,3-dioxan-2-one, ethylene carbonate, 3-ethyl-3-hydroxymethyl, propylene carbonate, trimethylolpropane monocarbonate, 4,6dimethyl-1,3-propylene carbonate, 2,2-dimethyl trimethylene carbonate, 1,3-dioxepan-2-one and mixtures thereof.

50. (previously presented) Chewing gum according to claim 47,
wherein cyclic ester polymers and their copolymers resulting from the polymerization of cyclic ester monomers are selected from the group consisting of poly (L-lactide); poly (D-lactide); poly (D, L-lactide); poly (mesolactide); poly (glycolide); poly (trimethylenecarbonate); poly (ϵ -caprolactone); poly (L-lactide-co-D, L-lactide); poly (L-lactide-co-meso-lactide); poly (L-lactide co-

glycolide) ; poly (L-lactide-co-trimethylenecarbonate) ; poly (L-lactide co-epsilon-caprolactone) ; poly (D, L-lactide-co-meso-lactide) ; poly (D, L lactide-co-glycolide) ; poly (D, L-lactide-co-trimethylenecarbonate) ; poly (D, L-lactide-co-epsilon-caprolactone) ; poly (meso-lactide-co glycolide) ; poly (meso-lactide-co-trimethylenecarbonate) ; poly (meso lactide-co-epsilon-caprolactone) ; poly (glycolide-cotrimethylenecarbonate) and poly (glycolide-co-epsilon-caprolactone).

51. (previously presented) Chewing gum according to claim 1,

wherein the chewing gum comprises filler.

52. (previously presented) Chewing gum according to claim 51,

wherein the chewing gum comprises filler in an amount of about 0 to about 50% by weight of the chewing gum.

53. (previously presented) Chewing gum according to claim 1,

wherein the chewing gum comprises at least one coloring agent.

54. (previously presented) Chewing gum according to claim 1,

wherein the chewing gum is coated with an outer coating.

55. (previously presented) Chewing gum according to claim 54,
wherein the outer coating is a hard coating.
56. (previously presented) Chewing gum according to claim 55,
wherein the hard coating is a coating selected from the group consisting of
a sugar coating, a sugarless coating, and a combination thereof.
57. (previously presented) Chewing gum according to claim 55,
wherein the hard coating comprises 50 to 100% by weight of a polyol
selected from the group consisting of sorbitol, maltitol, mannitol, xylitol, erythritol,
lactitol and isomalt.
58. (previously presented) Chewing gum according to claim 54,
wherein the outer coating is an edible film comprising at least one
component selected from the group consisting of an edible film-forming agent and
a wax.
59. (previously presented) Chewing gum according to claim 58,
wherein the film-forming agent is selected from the group consisting of a
cellulose derivative, a modified starch, a dextrin, gelatine, shellac, gum arabic,
zein, a vegetable gum, a synthetic polymer and any combination thereof.

60. (previously presented) Chewing gum according to claim 54,
wherein the outer coating comprises at least one additive component selected from the group consisting of a binding agent, a moisture absorbing component, a film forming agent, a dispersing agent, an antisticking component, a bulking agent, a flavoring agent, a coloring agent, a pharmaceutically or cosmetically active component, a lipid component, a wax component, a sugar, an acid and an agent capable of accelerating the after-chewing degradation of the degradable polymer.
61. (previously presented) Chewing gum according to claim 54,
wherein the outer coating is a soft coating.
62. (previously presented) Chewing gum according to claim 61,
wherein the soft coating comprises a sugar free coating agent.
63. (previously presented) Chewing gum according to claim 1,
wherein said chewing gum comprises conventional chewing gum polymers or resins.

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64. (previously presented) Chewing gum according to claim 1,
wherein the at least one biodegradable polymer comprises at least 5% of
the chewing gum polymers.
65. (previously presented) Chewing gum according to claim 1,
wherein all the biodegradable polymers comprised in the chewing gum
comprise at least 25% of the chewing gum polymers.
66. (previously presented) Chewing gum according to claim 1,
wherein all the biodegradable polymers comprised in the chewing gum
comprise at least 80% of the chewing gum polymers.
67. (canceled)